

Northwestern University Feinberg School of Medicine



Creating Learning Objects to Support Online Learning



Outline

- Definition of learning objects
- Available software
- Articulate features



Learning Objects Defined:

- "...a Learning Object (LO)... [is] 'any **digital resource** that can be **reused** to support learning.' This definition includes anything that can be delivered across the network on demand, be it large or small..." (Wiley 2002)
- "LO's are intended to **support online learning**. They are intended to be created once and **used numerous times**. Because they are delivered online, they are intended to be digital objects. And because they are used in learning, they are intended to have an educational component." (Downes 2004)
- "Any entity, digital or non-digital, that may be used for learning, education or training." (IEEE 2002)

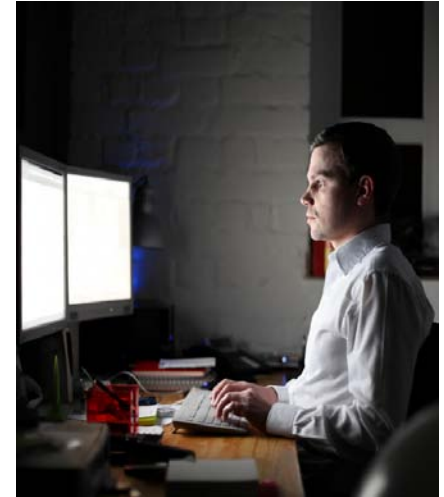
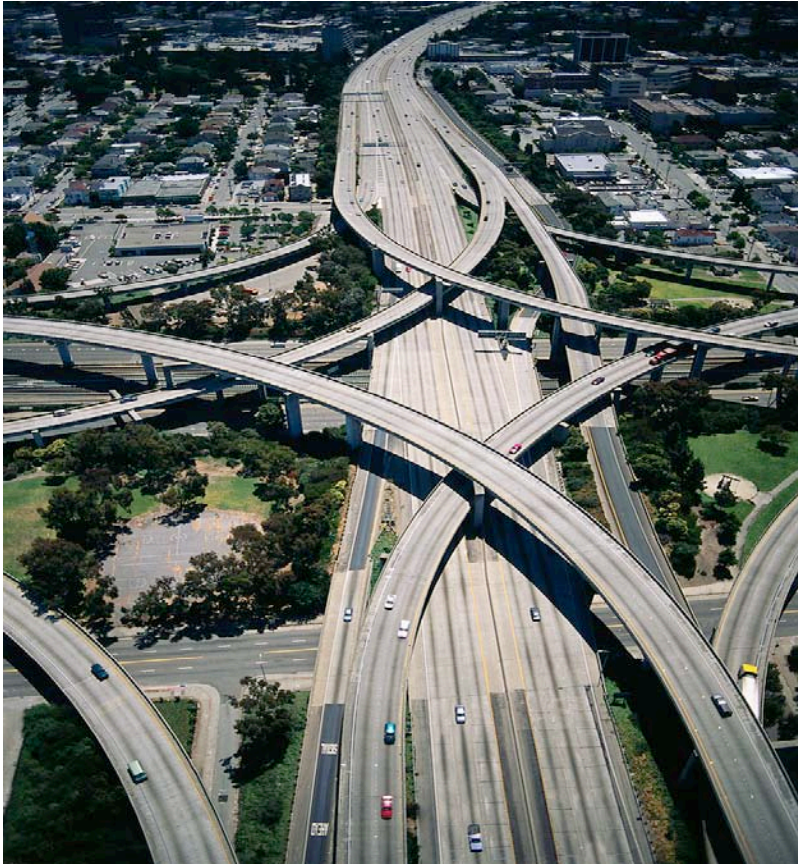


Main Criteria:

- Learning on demand
- Learner has control of pace and direction
- May include an active component



Why Use Learning Objects?



Software Options



	Adobe Presenter	I-Spring Presenter	Articulate Studio
Create Flash presentations	✓	✓	✓
Work within PowerPoint	✓	✓	✓
Add narration	✓	✓	✓
Import video	✓	✓	✓
Add quizzes	✓	✓	✓✓
Allow Customization	✓	✓	✓
SCORM compliant	✓	✓	✓
Track content	✓	✓	✓
Free trial available	✓	✓	✓



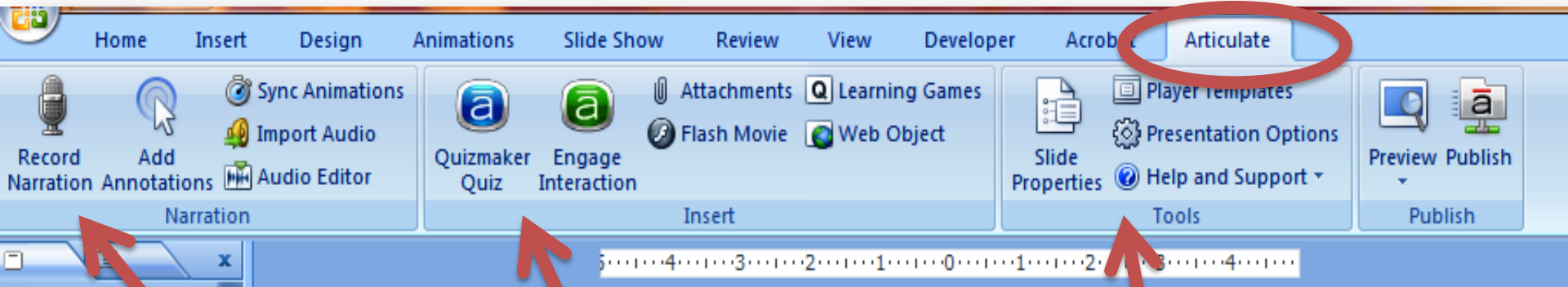
Articulate



NORTHWESTERN UNIVERSITY



Articulate Functions



Record narration

Create quiz or engagement

Change slide properties or presentation style

Types of Engagements



New Interaction

New Interaction
Select the type of interaction you wish to create.

Process

- Labeled Graphic
- Tabs
- Circle Diagram
- Timeline
- Media Tour
- FAQ
- Pyramid
- Guided Image
- Glossary
- Community Interactions

Call Handling Procedure

Introduction

In this lesson, you will become familiar with Comstar's call handling procedure.

Follow this 6-step process whenever answering a call from a customer.

Click through the numbered steps below to proceed.



Identify the Customer Issue

Process

The Process interaction allows users to discover the steps of a linear process.

Use the Process interaction to:

- Illustrate the steps of a process
- Walk users through a series of related items
- Explain a workflow or procedure

[View Sample](#)

Interaction Title:

[Learn more about interaction types](#)

Types of Engagements Continued



Timeline



Hippocratic Oath (Classical Version)

- Estimated to be written in the 4th century BC
- One of the oldest binding documents in history
- Hippocrates, who may or may not have written the oath, is credited as the "father of medicine"



http://www.pbs.org/wgbh/nova/doctors/oath_classical.html

Hippocratic Oath (Classical Version)

Ancient Greece 19th... 20th Century

21st Century

Types of Engagements Continued



Databases

Ovid MEDLINE

PubMed

Web of Science

PsycINFO

Health and Psychosocial Instruments (HaPI)

Academic Search Premier

PubMed



•Types of Articles:

- Biology
- Microbiology
- Genetics
- Cell Biology
- Physiology
- Molecular Biology
- Biochemistry
- Pharmacology
- Nursing
- Clinical Medicine

•Positives:

- Available to the Public

Types of Engagements Continued



Community Engagement & Service Competency

CES

The Community Engagement and Service Competency reads as follows:

Our graduates will demonstrate knowledge of community factors that influence individual, community, and public health and will gain both perspective and experience through service-learning activities within local or global community settings.





Guided Image



Image Taken From:
<http://www.clker.com/clipart-12105.html>

PROPERTIES

Allow user to leave interaction:
Show 'Next Slide' Button:
Completion Button Label:

[After viewing all the steps](#)
[Show upon completion](#)
[Next Slide](#)



Properties...



Edit in Engage



Articulate Quiz Maker

New Graded Question

New Graded Question
Select the type of graded question you want to create.

True/False

Multiple Choice

Multiple Response

Fill in the Blank

Word Bank

Matching Drag and Drop

Matching Drop-down

Sequence Drag and Drop

Sequence Drop-down

Numeric

Hotspot

Which of these Comstar services offer all core bundles together for only \$29.95 per month for the first year?

Comstar Online

Comstar Voice

Comstar Triple Play

Comstar Digital Cable

Word Bank
Word Bank is a graded question that requires the user to drag and drop the correct choice into the empty box. The user must select the single correct choice from a maximum of 10 possible choices.

[Learn more about creating a graded question](#)

OK Cancel

New Survey Question

New Survey Question
Select the type of survey question you want to create.

Likert Scale

Pick One

Pick Many

Which Word

Short Answer

Essay

Ranking Drag and Drop

Ranking Drop-down

How Many

We're looking for your input about on-demand movies. Which feature is most important to you?

Wide selection of movies

Quick availability of new releases

Reviews by experts and other viewers

Save to DVR feature

Ability to pause and rewind

Pick One
Pick One is a survey question that allows the user to choose a single item from a maximum of 10 choices.

[Learn more about creating a survey question](#)

OK Cancel

Match these mascots with their home institution

Northwestern
University

Sparty the
Spartan

University of
Iowa

Brutus Buckeye

The Ohio State
University

Willie the Wildcat

University of
Wisconsin

Herky the Hawk

Michigan State
University

Bucky Badger



PROPERTIES

On passing, 'Finish' button:

On failing, 'Finish' button:

Allow user to leave quiz:

User may view slides after quiz:

User may attempt quiz:

Goes to Next Slide

Goes to Next Slide

After user has completed quiz

At any time

Unlimited times



Properties...



Edit in Quizmaker

Where's Willie?



PROPERTIES

On passing, 'Finish' button:

On failing, 'Finish' button:

Allow user to leave quiz:

User may view slides after quiz:

User may attempt quiz:

[Goes to Next Slide](#)

[Goes to Next Slide](#)

[After user has completed quiz](#)

[At any time](#)

[Unlimited times](#)



Properties...



Edit in Quizmaker



Thank You.



References

- Downes, S. (2004). Learning Objects Resources for learning worldwide. In R. McGreal (Ed.), *Online Education Using Learning Objects* (pp. 21-58). New York, NY: RoutledgeFalmer.
- Institute of Electrical and Electronics Engineers. (2002). *Draft standard for learning object metadata (Proposed Standard)*. Piscataway, NJ: IEEE.
- Wiley, D. A. (2002) "Connecting Learning Objects to Instructional Design Theory: A Definition, a Metaphor, and a Taxonomy." *The Instructional Use of Learning Objects*. Bloomington, IN: Agency for Instructional Technology.